

JAN 17 1982

MAR 24 1980

AUG 18 1975

NOT PHOTO CHEMICALLY REACTIVE

U. S. DEPARTMENT OF LABOR
Occupational Safety and Health Administration

Form Approved
OMB No. 44-R1387

MATERIAL SAFETY DATA SHEET

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME FIBER-RESIN CORPORATION		EMERGENCY TELEPHONE NO. 213-849-4608
ADDRESS (Number, Street, City, State, and ZIP Code) 170 W. Providencia Ave., Burbank, California 91503		
CHEMICAL NAME AND SYNONYMS		TRADE NAME AND SYNONYMS C-14A
CHEMICAL FAMILY Epoxy	FORMULA proprietary	

SECTION II HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS epoxy resin	80-90%		BASE METAL		
CATALYST polysulfide polymer	10-20		ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)

SECTION III PHYSICAL DATA

BOILING POINT (°F.)	300°F	SPECIFIC GRAVITY (H ₂ O=1)	1.16
VAPOR PRESSURE (mm Hg.)	Very Low	PERCENT VOLATILE BY VOLUME (%)	NIL
VAPOR DENSITY (AIR=1)		EVAPORATION RATE (_____ = 1)	NIL
SOLUBILITY IN WATER	1%		
APPEARANCE AND ODOR	sulphurous odor		

SECTION IV FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	300°F	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA	water, foam			
SPECIAL FIRE FIGHTING PROCEDURES				
UNUSUAL FIRE AND EXPLOSION HAZARDS	NONE			

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SECTION V HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

EFFECTS OF OVEREXPOSURE

may cause dermatitis on repeated skin contact

EMERGENCY AND FIRST AID PROCEDURES

apply lotion, see physician if necessary

SECTION VI REACTIVITY DATA

STABILITY

UNSTABLE

CONDITIONS TO AVOID

STABLE

X

INCOMPATIBILITY (Materials to avoid)

NONE

HAZARDOUS DECOMPOSITION PRODUCTS

NONE

HAZARDOUS
POLYMERIZATION

MAY OCCUR

CONDITIONS TO AVOID

WILL NOT OCCUR

X

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

wipe up with MEK

WASTE DISPOSAL METHOD

normal disposal

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

not required

VENTILATION

LOCAL EXHAUST

SPECIAL

normal room OK

MECHANICAL (General)

OTHER

PROTECTIVE GLOVES

optional

EYE PROTECTION

optional

OTHER PROTECTIVE EQUIPMENT

protective hand cream beneficial

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

sealed cans to prevent moisture contamination

OTHER PRECAUTIONS

JAN 17 1982

MAR 24 1987

MATERIAL SAFETY DATA SHEET

NOT PHOTO CHEMICALLY REACTIVE

SECTION I

MANUFACTURER'S NAME FIBER RESIN CORPORATION		EMERGENCY TELEPHONE NO. (213)849-4608
ADDRESS (Number, Street, City, State, and ZIP Code) 170 W. Providencia Ave.		
CHEMICAL NAME AND SYNONYMS Epoxy Curing Agent		TRADE NAME AND SYNONYMS C-14 B
CHEMICAL FAMILY Alkyleneamine	FORMULA $H_2NCH_2CH_2NHCH_2CH_2NH_2$	

SECTION II - HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					
HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES				%	TLV (Units)
Alkyleneamine				100	10

SECTION III - PHYSICAL DATA

BOILING POINT (°F.)	404	SPECIFIC GRAVITY (H ₂ O=1) 20°C	.9542
VAPOR PRESSURE (mm Hg.)	< 1 mm	PERCENT, VOLATILE BY VOLUME (%)	N.L.
VAPOR DENSITY (AIR=1)	3.5	EVAPORATION RATE (_____ =1)	
SOLUBILITY IN WATER	complete		
APPEARANCE AND ODOR water white liquid. Mild Ammonical odor			

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used)	210°F T.C.C.	FLAMMABLE LIMITS	LeI	UeI
EXTINGUISHING MEDIA	CO ₂ , dry powder, foam			
SPECIAL FIRE FIGHTING PROCEDURES				
air-supplied respirator				
UNUSUAL FIRE AND EXPLOSION HAZARDS				

BOE-C6-0203236

C-148

SECTION V - HEALTH HAZARD DATA

THRESHOLD LIMIT VALUE

10 ppm (skin)- ACGIH (1975)

EFFECTS OF OVEREXPOSURE

Vapors are irritating and may cause asthma. Skin and eye contact cause burns.

A sensitizer which causes skin rash.

EMERGENCY AND FIRST AID PROCEDURES

Skin: Wash immediately with soap and water

Eye: Flush with water for 15 minutes and call physician

SECTION VI - REACTIVITY DATA

STABILITY

UNSTABLE

STABLE

X

CONDITIONS TO AVOID

INCOMPATIBILITY (Materials to avoid)

Avoid contamination with acids

HAZARDOUS DECOMPOSITION PRODUCTS

CO, CO₂, nitrogen oxides

HAZARDOUS POLYMERIZATION

MAY OCCUR

WILL NOT OCCUR

X

CONDITIONS TO AVOID

SECTION VII - SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Small spills: Flush with water

WASTE DISPOSAL METHOD

Incinerate

SECTION VIII - SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type)

Air supplied mask in confined areas

VENTILATION

LOCAL EXHAUST

preferable

MECHANICAL (General)

SPECIAL

OTHER

PROTECTIVE GLOVES

Rubber

EYE PROTECTION

Chemical goggles

OTHER PROTECTIVE EQUIPMENT

Apron, eye wash fountain

SECTION IX - SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORING

Do not get in eyes, on skin, on clothing. Avoid breathing vapor

Store in closed containers. Wash thoroughly after handling

OTHER PRECAUTIONS



FIBER-RESIN CORPORATION

P. O. BOX 4187

BURBANK, CALIFORNIA 91503

May 7, 1976

DOUGLAS AIRCRAFT CO.
3855 Lakewood Blvd.
Long Beach, California 90846

FR-6362/

Attention: M. J. Venerose, Dept. Cl-726 (52-11)

Reference: Cl-726-30-Cycleweld C-14

Dear Sir:

1. DOT Shipping Name -- Liquid Plastic NOI
2. DOT Hazard -- Not listed in IATA Regulations
3. Flash Point -- Base >400°F. Closed Cup
Curing Agent 205°F. Cleveland Open Cup.

We find the airlines are reluctant to ship any liquid resin, regardless of flash points. You can hold a blow torch on C-14 without fire hazard.

Very truly yours,

FIBER-RESIN CORPORATION

A B Kerr
Andy Kerr
General Manager

AK/ss

*Less 10% 205° Open Cup
Closed Cup
= approx 184° Closed Cup.*

MANUFACTURING FACILITIES, LABORATORIES AND OFFICES

Located in California at 170 W. Providencia Avenue . Burbank, California, 91503 . (213) 849-4608

BOE-C6-0203238

CHRYSLER CORPORATION
CHEMICAL DIVISION

DPM
1132

CUSTOMER AID

SAFE HANDLING OF CHEMICAL DIVISION PRODUCTS

PRODUCT C-14A

With regard to the safe handling of our product C-14A, we are offering the following information:

Product: C-14A

Product Category: Epoxy Adhesive

☒ 100% Solids ☐ Water Based ☐ Solvent Based
Specific Gravity - 1.16

Solvent System: None

Solid System: 100%

Essentially composed of epoxy resins and liquid polysulfide.

Safe Handling Characteristics:

Non-flammable
Flash Point - 175° F TOC

Avoid skin contact.

Waste Disposal - Controlled burning

Storage - Safety-wise requires no special storage.

We trust you will find this information helpful. Please contact us if you have any questions.

CHRYSLER CORPORATION
CHEMICAL DIVISION
SAFETY/HYGIENE DEPARTMENT

DPM
1132

CHRYSLER CORPORATION

CHEMICAL DIVISION

CUSTOMER AID

SAFE HANDLING OF CHEMICAL DIVISION PRODUCTS

PRODUCT C-14B

With regard to the safe handling of our product C-14B, we are offering the following information:

Product: C-14B

Product Category: Catalyst

☒ 100% Solids ☐ Water Based ☐ Solvent Based
Specific Gravity - 9.6

Solvent System: None

Solid System: 100% Amine

Safe Handling Characteristics:

Non-flammable
Flash Point - $> 175^{\circ}\text{F}$ TOC

Avoid skin contact.

Waste Disposal - Controlled burning

Storage - Avoid storage in 180° or more temperature areas to prevent release of toxic vapors.

We trust you will find this information helpful. Please contact us if you have any questions.

CHRYSLER CORPORATION
CHEMICAL DIVISION
SAFETY/HYGIENE DEPARTMENT

MEMORANDUM

TO: R. W. Ochsner, C1-253 (1-18)

FROM: M. J. Veneroso, C1-726 (52-11)

SUBJECT: DPM 1132, Epoxy Adhesive

COPIES TO: T. W. Wilson, C1-750 (52-11); File

REFERENCE: (a) DPM Index Dated 3-1-76
(b) Fiber-Resin Corp. Letter Dated 5-7-76
(c) Chrysler Corporation Letter (Undated)

DATE: 5-25-76

C1-726-M42

It is requested this department be furnished the correct flash point for both Cycleweld C-14 and its curing agent (DPM 1132) using an appropriate CLOSED CUP method.

In order to insure our compliance with the U. S. Department of Transportation Hazardous Materials Regulations, we have attempted to determine the correct flash point. However, a review of the above mentioned references reveals three different flash points for both base material as well as the curing agent and three different methods used for determination.



M. J. Veneroso
Materials Handling & Packaging Engineering

MJV:WTJ:rc

Enclosure: Copy of Reference (b)
Copy of Reference (c)